

Appendix attached to
paper # 20040927

Amendment Under 37 C.F.R. § 1.114(c)
U.S. Appln No. 09/872,421

Atty Dkt No. Q64554

10. (Currently Amended) A discharging surface treatment device for generating a discharge between ^{a discharge processing} an electrode and a treatment target ^(in figured) so that a coating film is formed on the surface of the treatment target by the discharging energy, ^{comprising} ~~the discharge processing electrode formed of~~ forming a powder mixture, comprising as one component: (a) a ferrous-family metal powder or a non-ferrous ~~[[family]]~~ metal powder, wherein each of said metal powders can be formed of one or plural metals; and, as a second component, (b) one or a plurality of metal carbides, wherein the elemental metal of the carbide or carbides belongs to the ~~IVa, Va or VIa~~ IVB, VB or VIB families in the Periodic Table;

the non-ferrous ~~[[family]]~~ metal powder having the same composition as the treatment target; ^{where in} heating the powder mixture to a temperature at which said component (a) starts to melt to form an electrode ~~serving~~ that is approximately as hard as chalk and that serves ^{the} as a discharge processing electrode; and

said discharging surface treatment device is provided with a switching unit ^{with means to} ~~which~~ alters electrical conditions at a time when a base member of the treatment target is directly subjected to a discharging surface treatment so as to form an initial coating film, and electrical conditions at a time when ~~[[a]]~~ the initial coating film that has been formed on the base member is subjected to a further discharging surface treatment, according to the characteristics of the treatment target material.